

Data Foundation Nanodegree Project

Topic: Flight Delays and Cancellations

This report gives the insight on dataset of 2015 flight delays and cancellations.

The Full **Story** link:

<https://public.tableau.com/profile/sayali2938#!/vizhome/FlightDelay-DFNDProject/Story>

The Final **Dashboard** Link:

https://public.tableau.com/profile/sayali2938#!/vizhome/FlightDelay-DFNDProject/Final_Dashboard

For both Story and Dashboard Month Filter is added to sort the data in All visualization in a year 2015.

Insight 1: Cancellation Number by State

- **Link :** <https://public.tableau.com/profile/sayali2938#!/vizhome/FlightDelay-DFNDProject/CancellationbyState>
- **Summary:** The Map depicts that the Texas and Illinois states had the highest number of flight cancellations of 668 and 563 numbers respectively.
The lowest amount of flight delayed number is 0 at Delaware state then Montaña and West Virginia states with 3 Flight cancellations in 2015 year.
- **Design:** The map in Blue shades highlights with darker the number of Flight cancellation number increases. the blue Color is the way to make sure color palettes should work for colorblindness.

Insight 2: Average Flight Delay as per Airline's

- **Link :** <https://public.tableau.com/profile/sayali2938#!/vizhome/FlightDelay-DFNDProject/AirlineDelayAverage>

- **Summary:** The Bar graph visualization illustrates that the Hawaiian Airlines had the highest Flight Delay Average which is 22.712
When we hover over the visualization we can see that the 1.83 average flights have arrived late in a year 2015 for Hawaiian Airlines.
Virgin America had the least amount of flight delays which is 13.113 only.
- **Design:** The Bar graph in Blue to make sure color palettes should work for colorblindness also added one tooltip that is late arrival time count of Airline.

Insight 3 : Cancellation number by Airline's Name

- **Link :** <https://public.tableau.com/profile/sayali2938#!/vizhome/FlightDelay-DFNDProject/AirlineCancelled>
- **Summary:** The graph visualization describes that the Southwest Airlines had the highest number of Flight cancellations which was 818 and Atlantic Southeast Airlines had the second highest count of cancellations which was 800.
Hawaiian Airlines had the least amount of flight cancellations which was 8 only.
- **Design:** The graph in Blue to make sure color palettes should work for colorblindness.

Insight 4 : Flight Cancellation by Month

- **Link :** <https://public.tableau.com/profile/sayali2938#!/vizhome/FlightDelay-DFNDProject/FlightCancellationbyMonth>
- **Summary:** The Line graph visualization illustrates that on the 2nd month that is February had the highest number of cancellation which was 1,058 and on the 9th month that is September it was 108 cancellations which is lowest compare to other months cancellations.

Design: The graph in Blue to make sure color palettes should work for colorblindness also added one tooltip that is sum of diverted Airlines.

All References: N/A (All data and Videos given in Udacity Classroom of Data Foundation Course)

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